

1/20

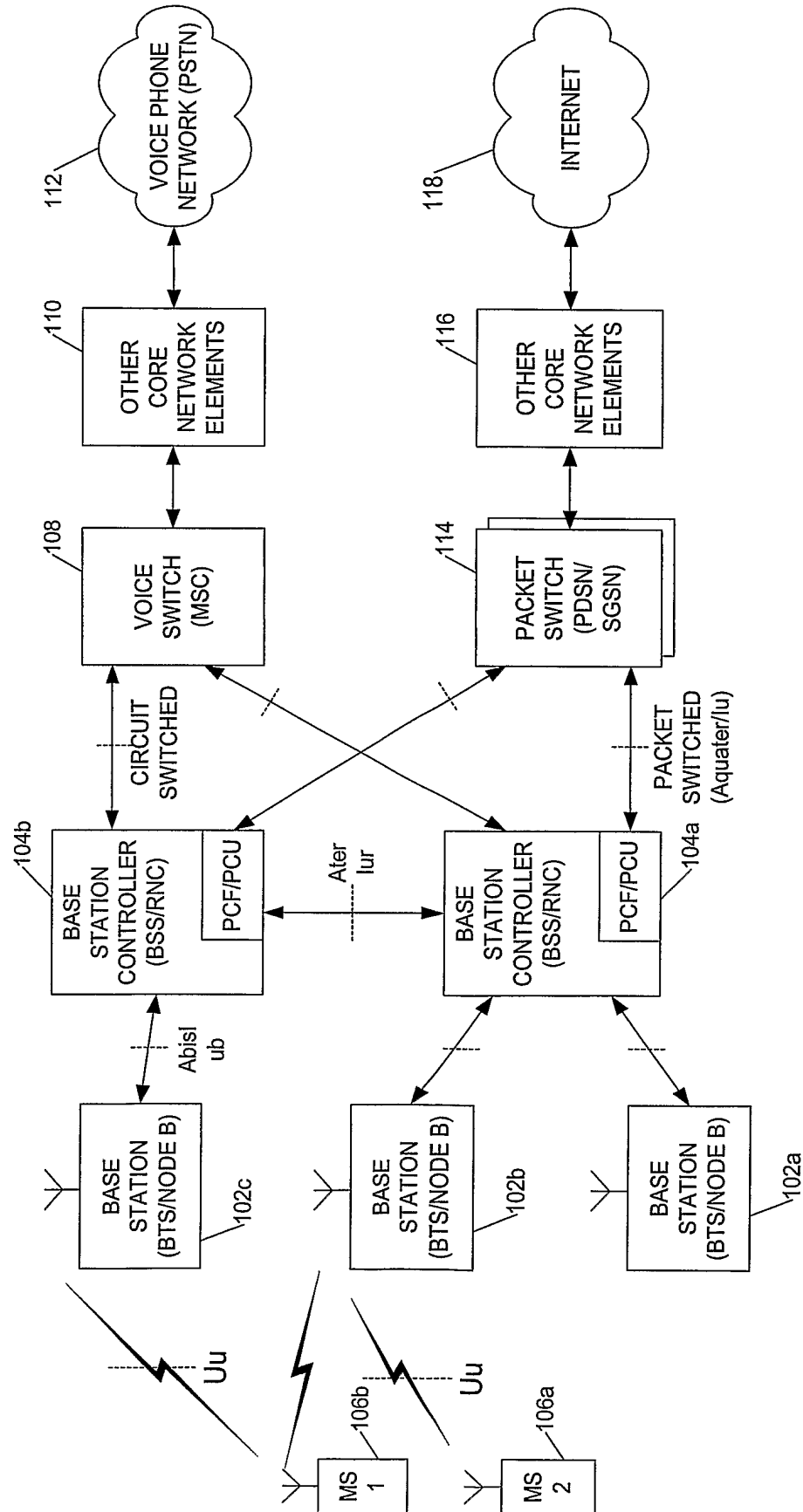
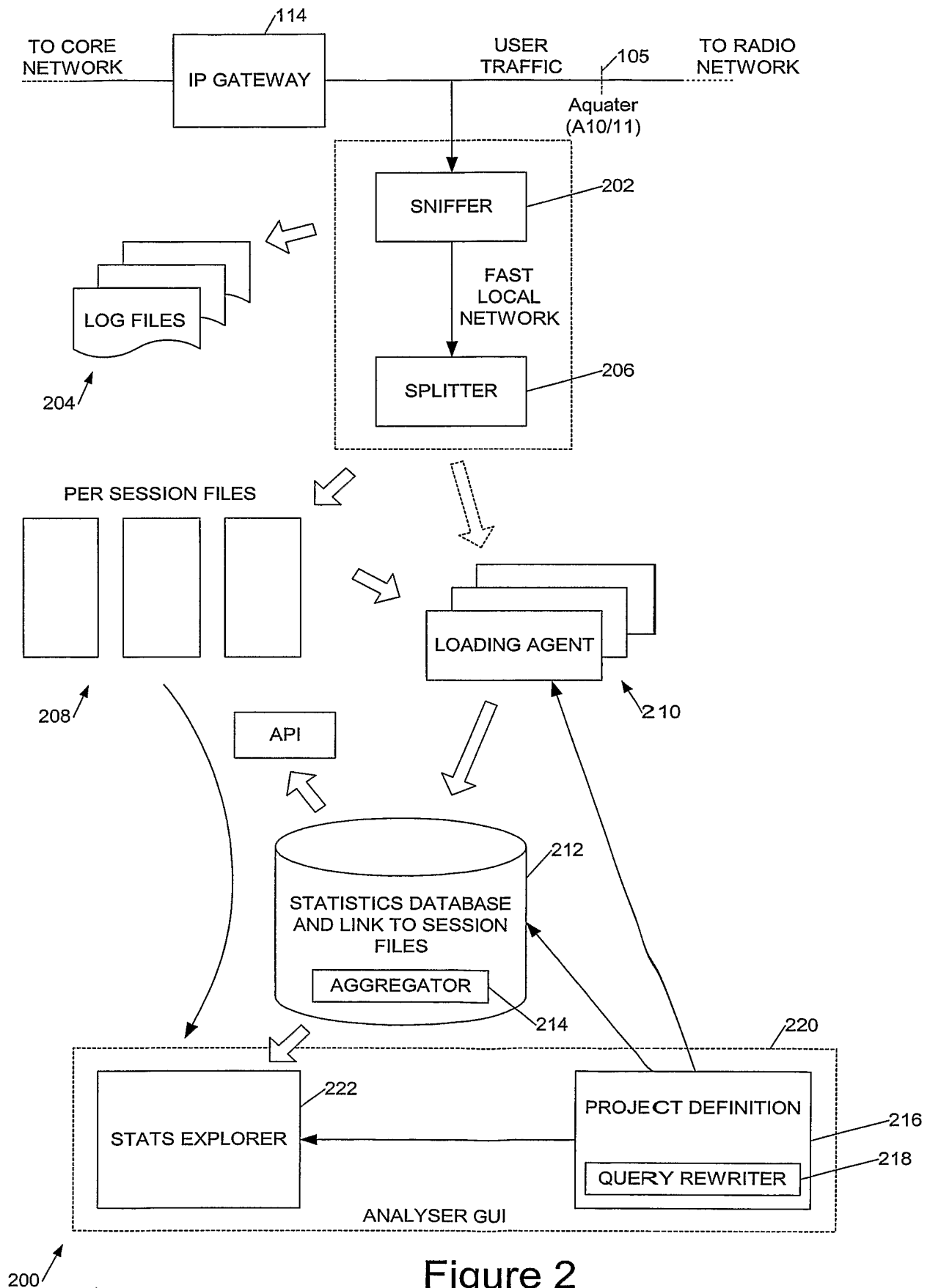


Figure 1

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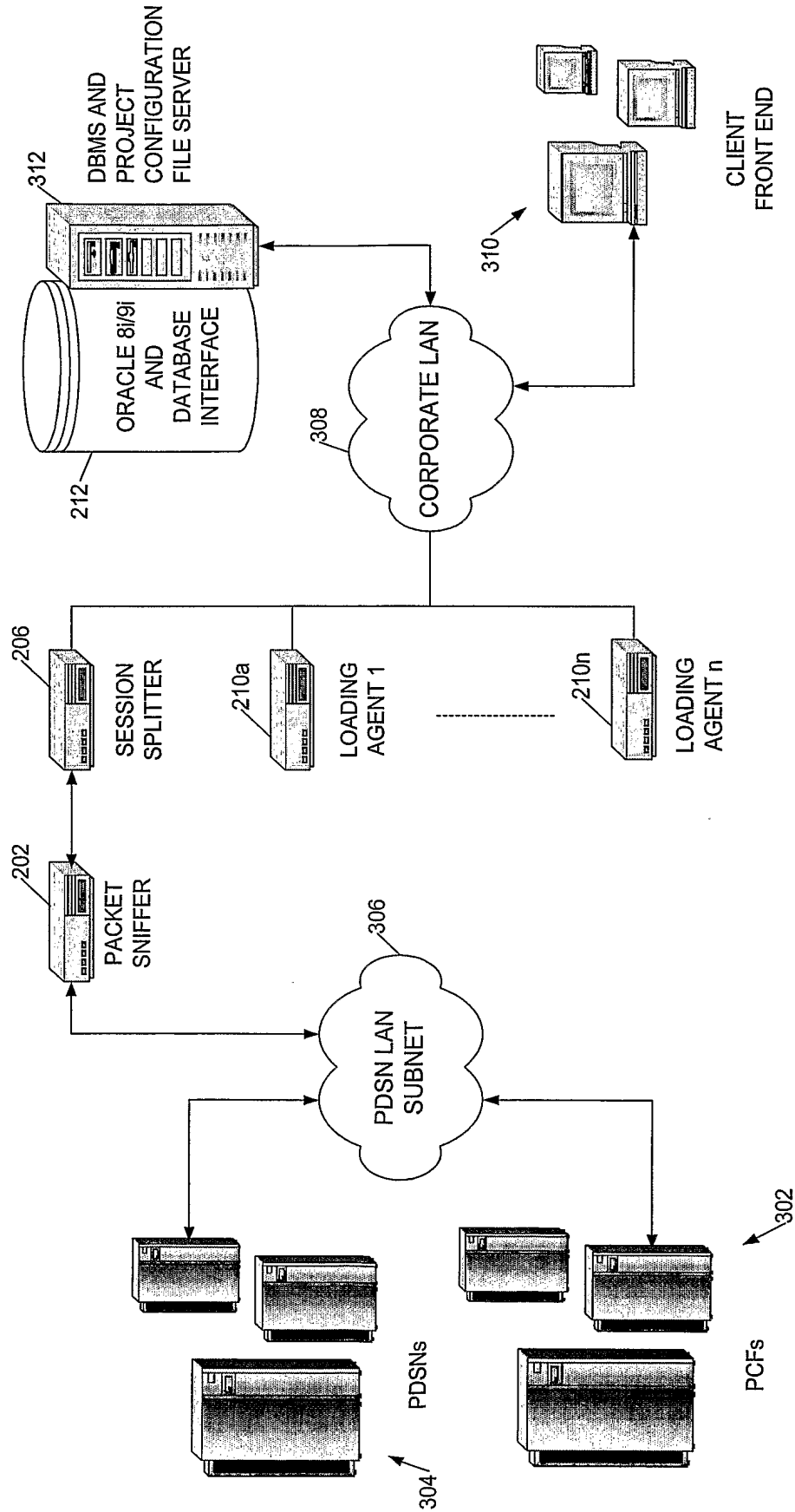


Figure 3

300

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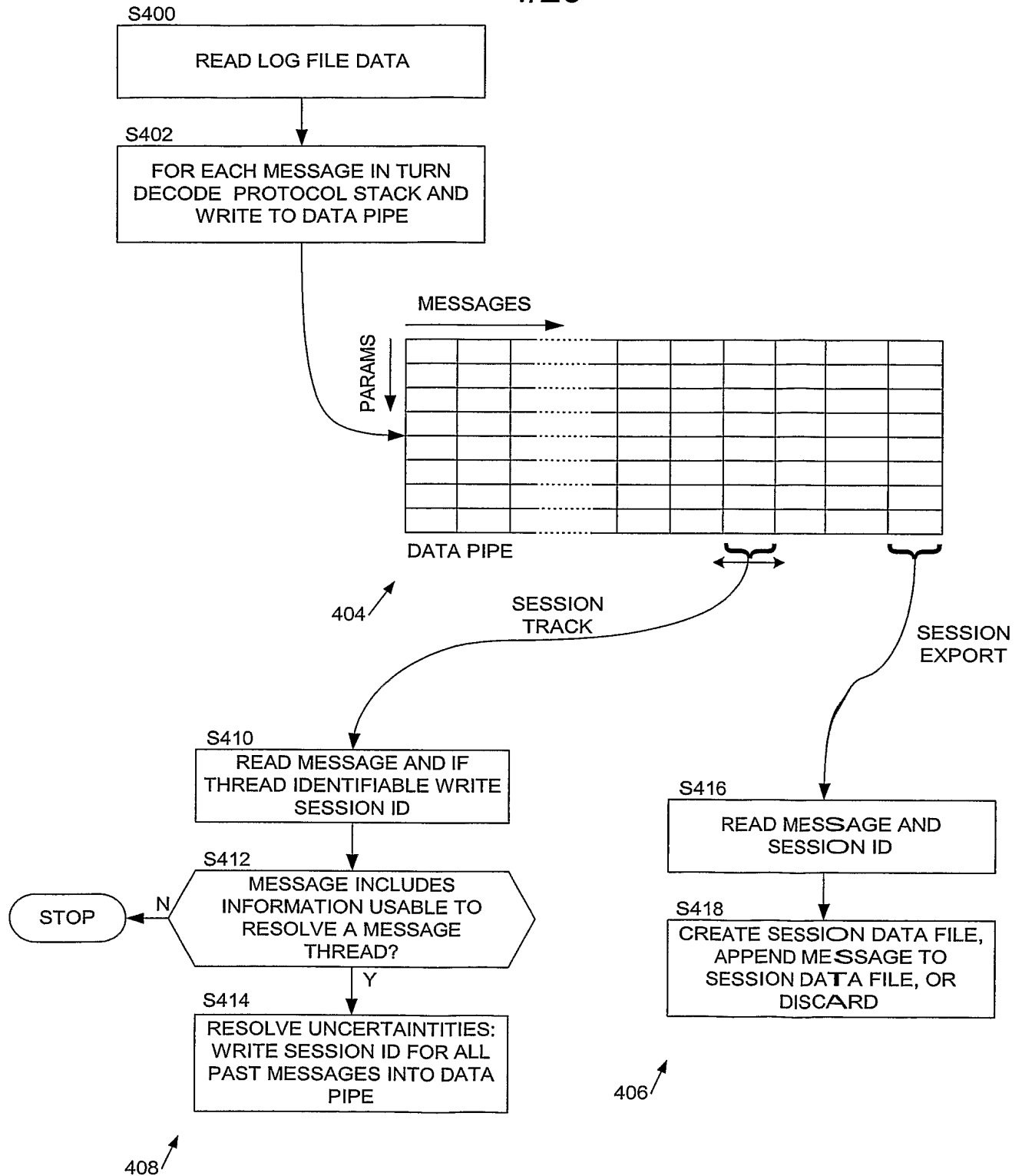


Figure 4

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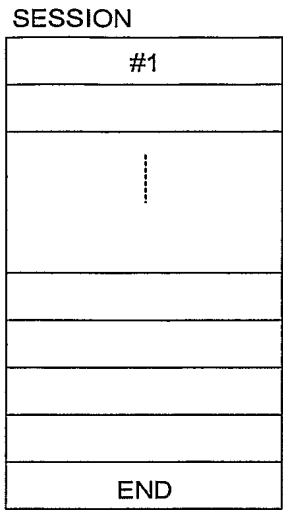


Figure 5a

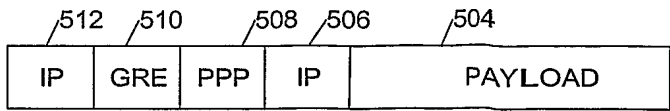


Figure 5b

DIM 1	DIM 2	STAT 1	STAT 2	STAT N
1	1			
1	2			
1	3			
2	1			
2	2			
2	3			

Figure 5e

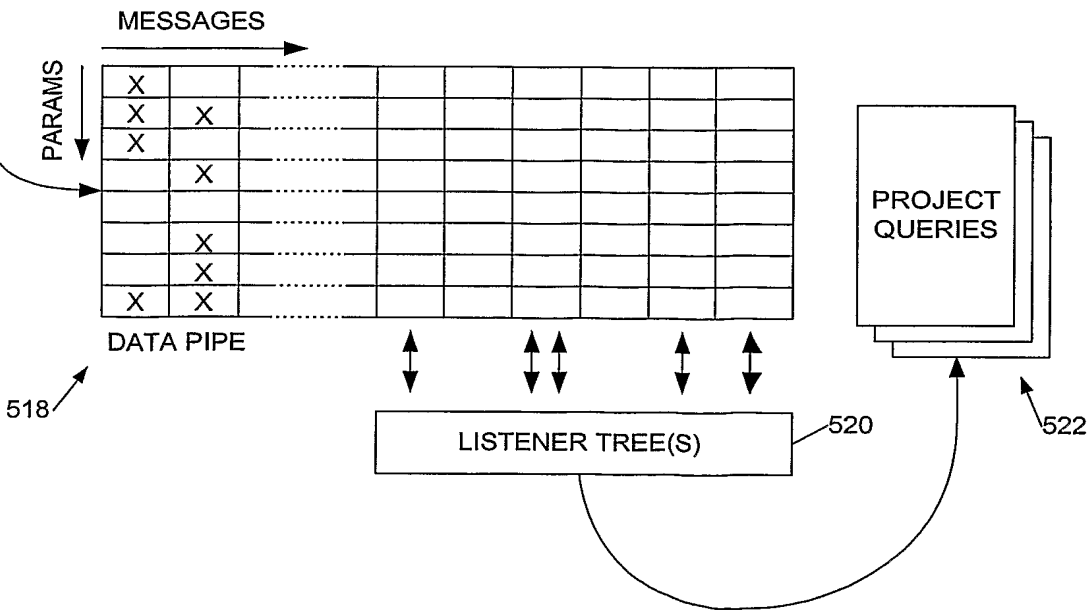
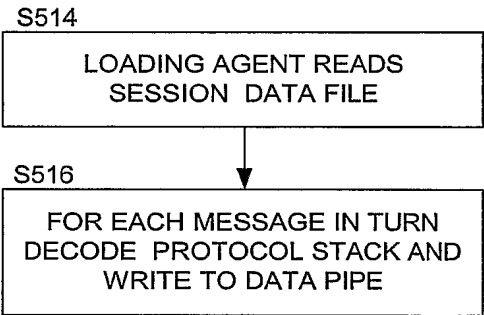


Figure 5c

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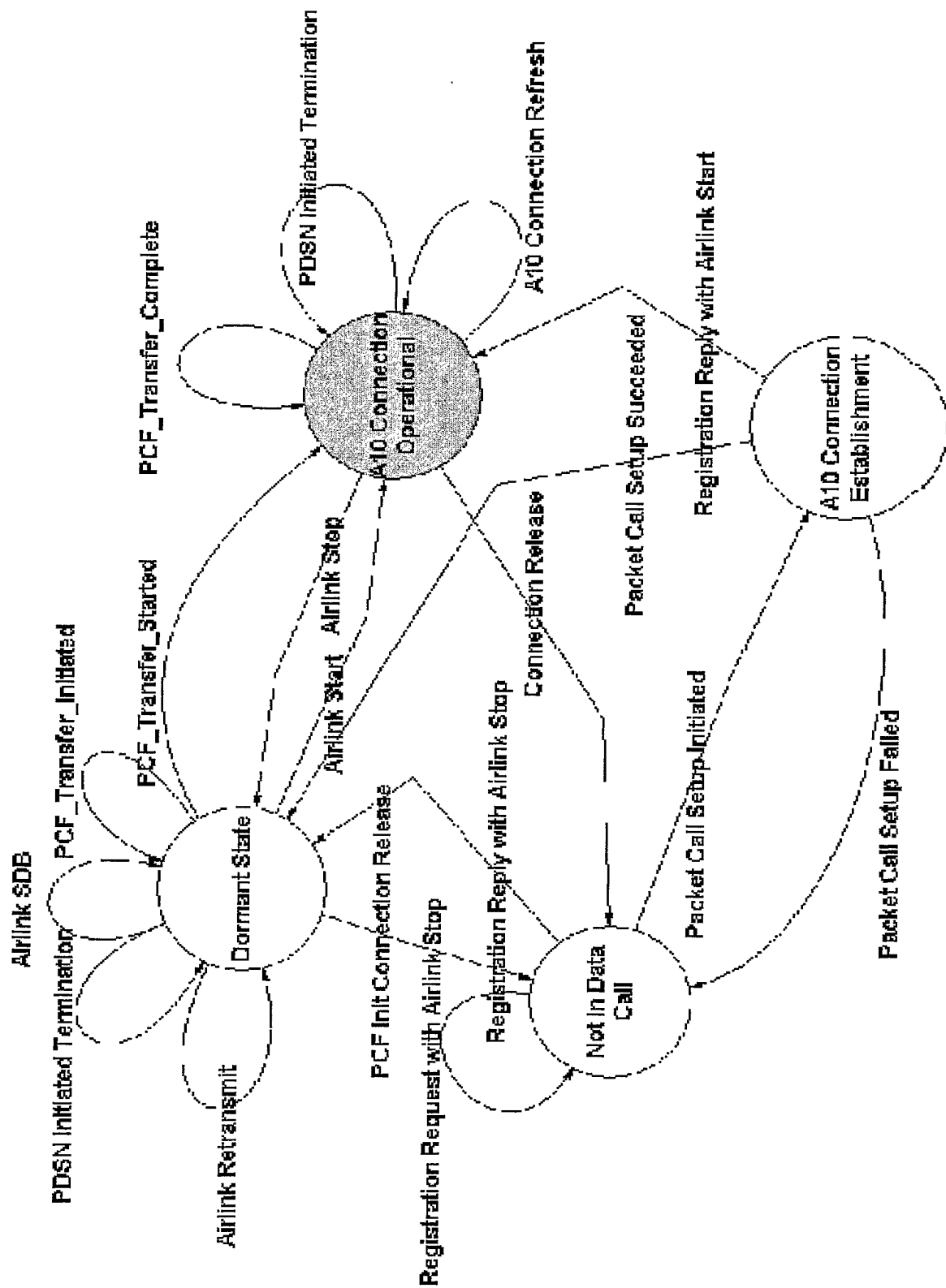


Figure 5d

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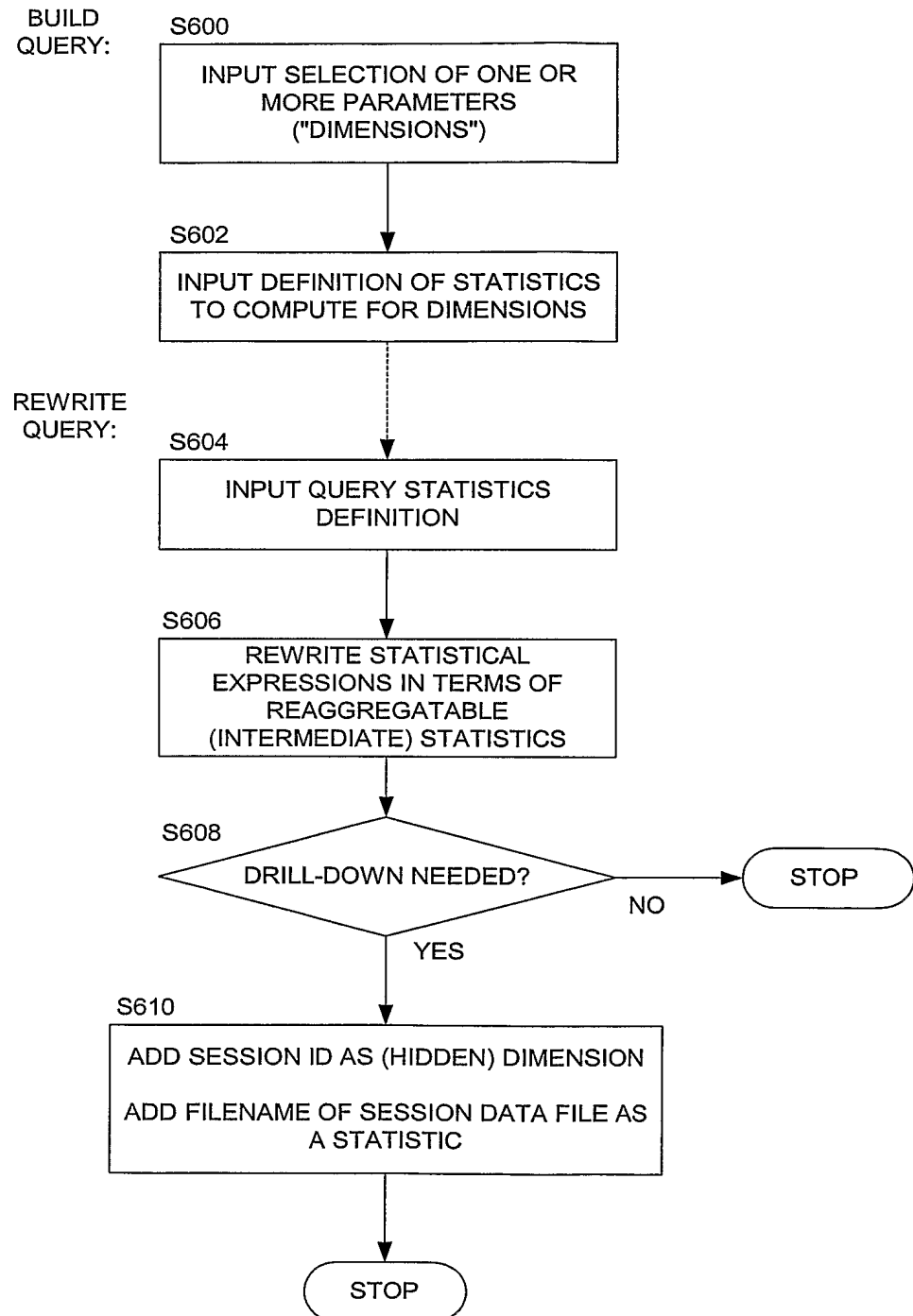


Figure 6

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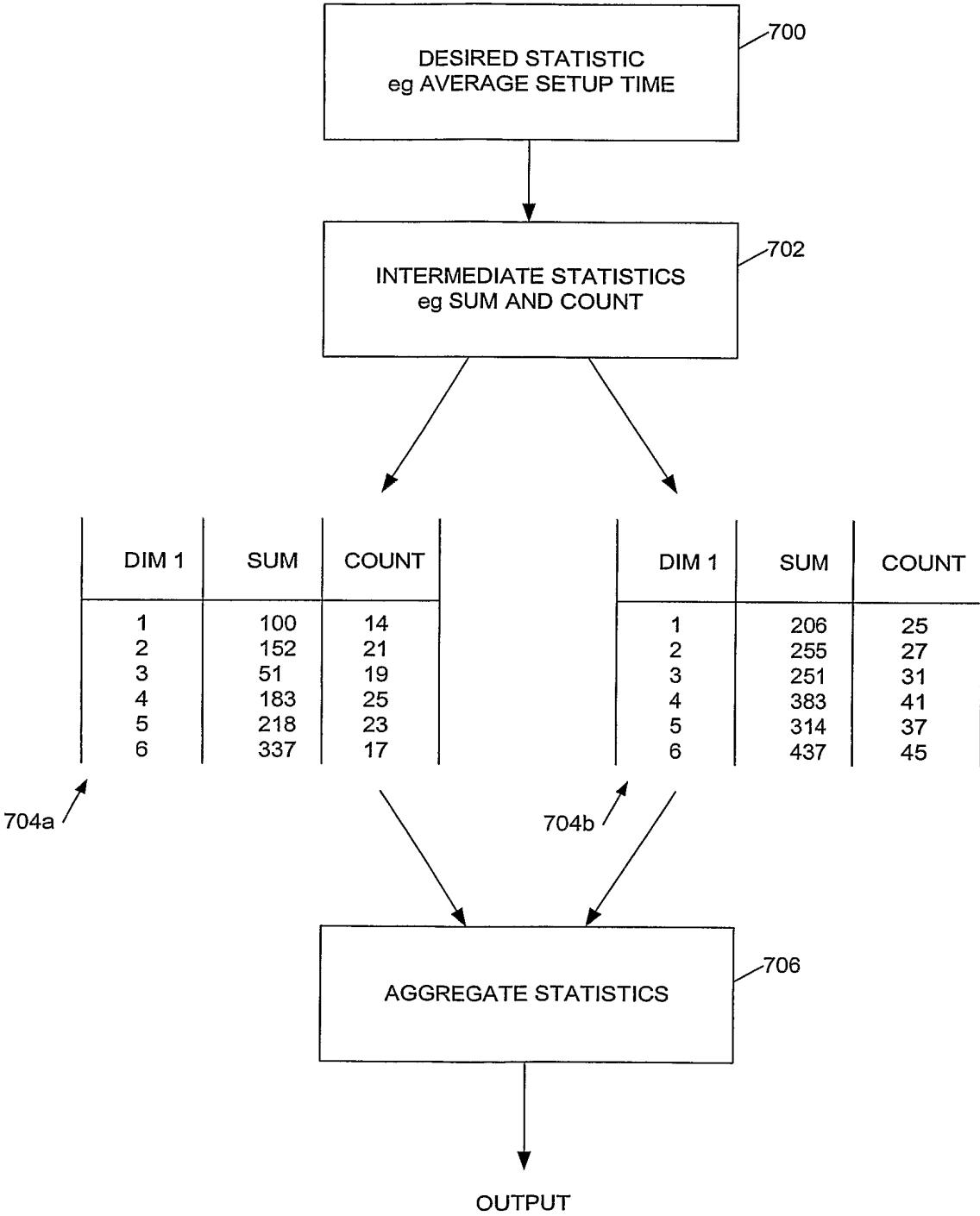


Figure 7

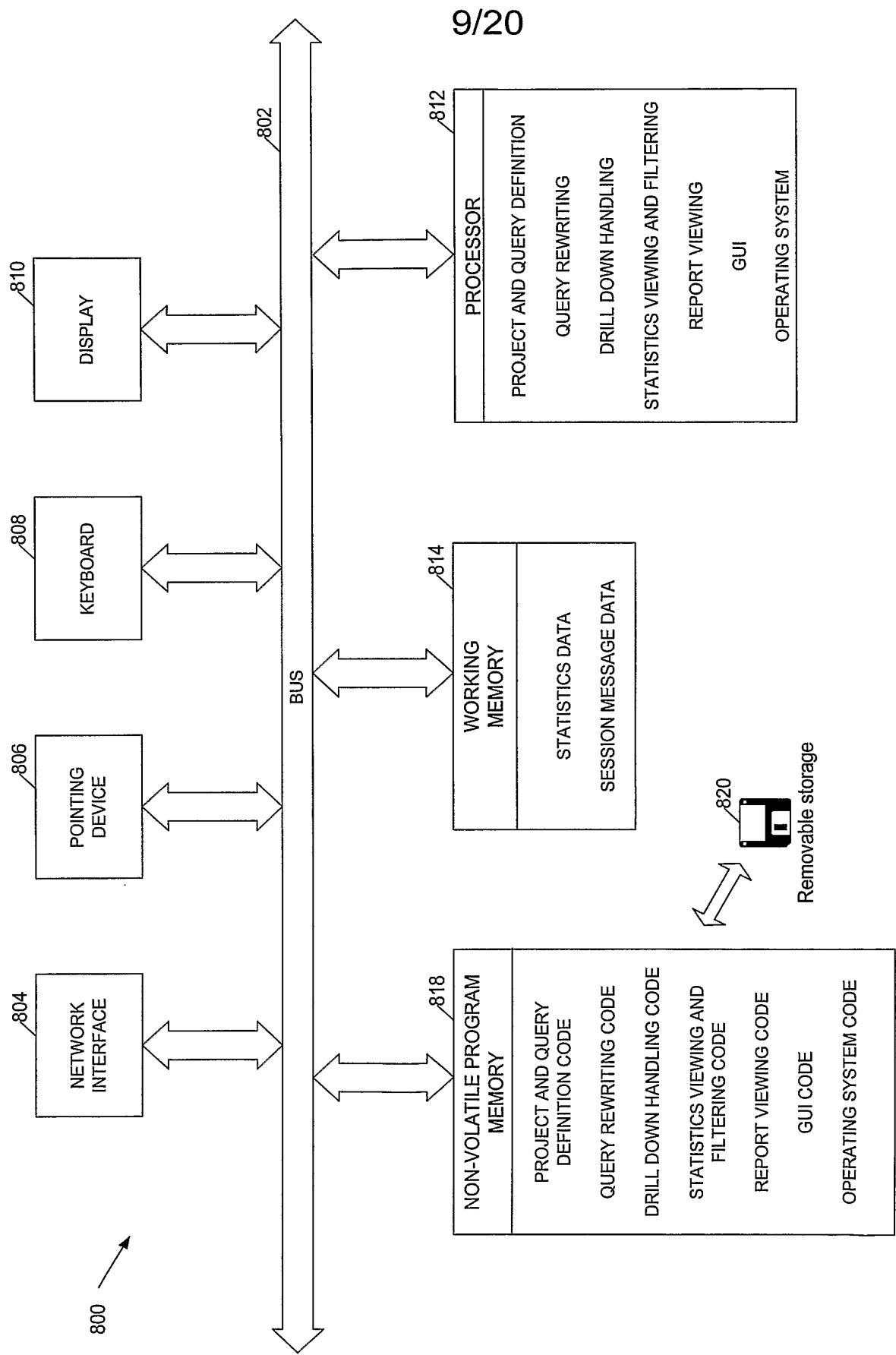


Figure 8

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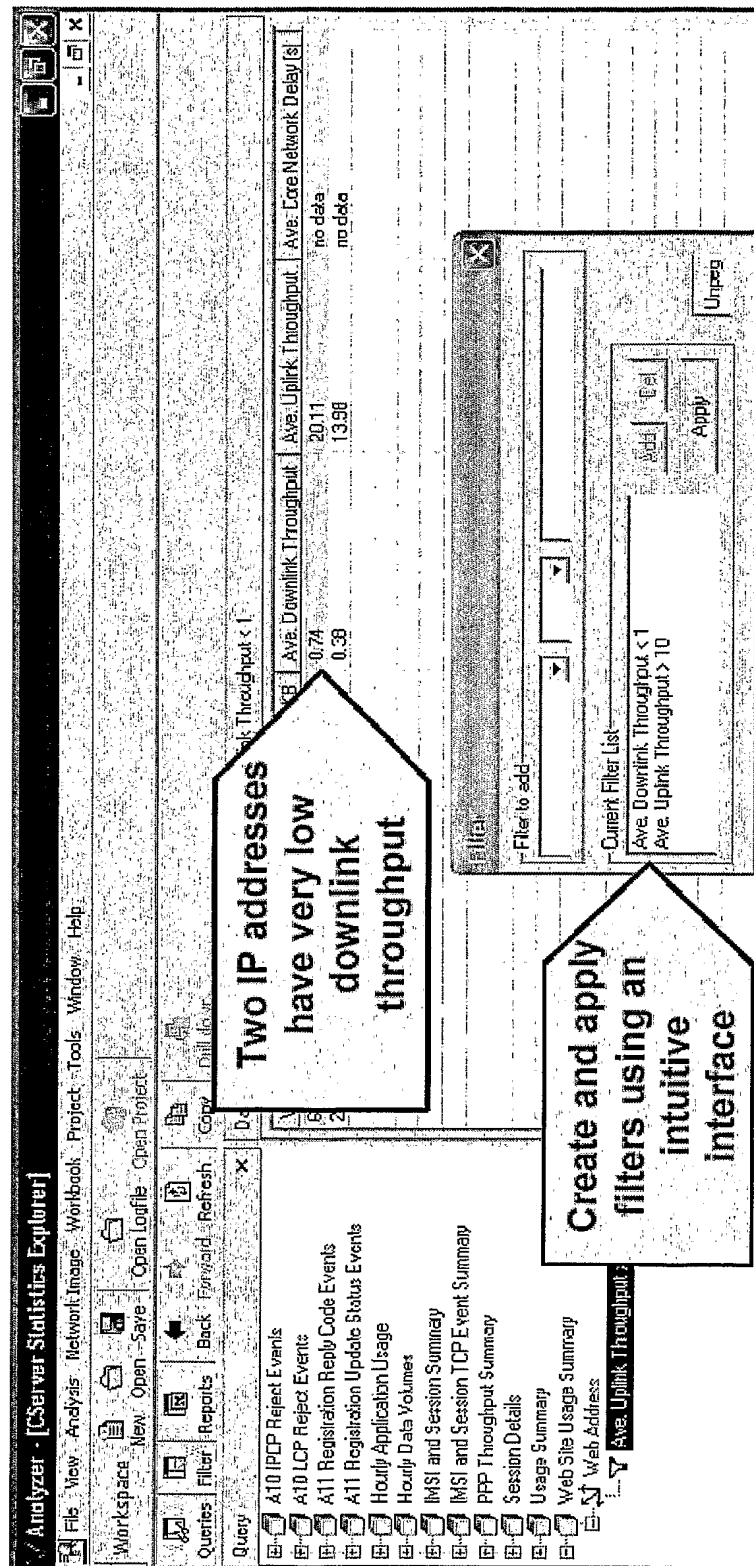


Figure 9

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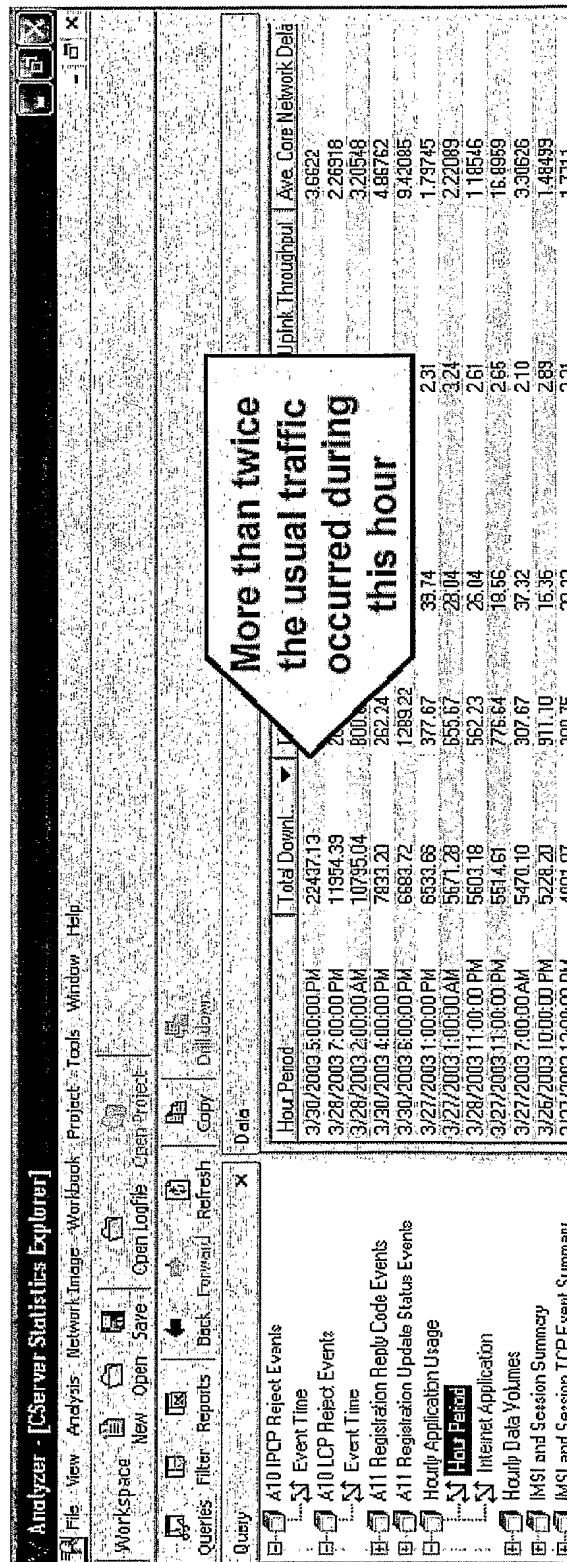


Figure 10

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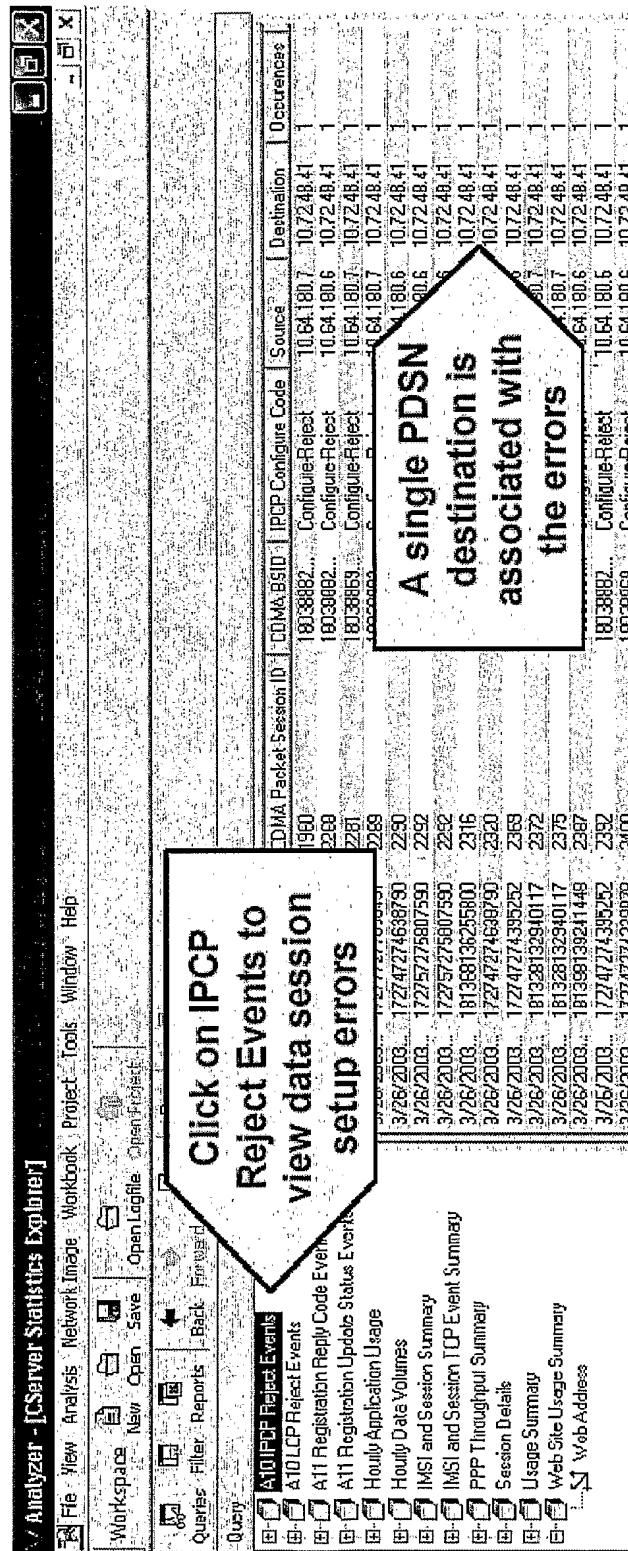


Figure 11

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Time	Origination Time	Packet Data Setup Time	PPP Setup Time	SCH Assignment Time	Total Setup Time
1:31:02 PM	1101	127	1087	4001	10179
1:35:23 PM	2102	141	1213	398	6369
2:02:52 PM	292	112	980	1121	10718
3:13:11 PM	5102	202	2003	906	8213

Figure 12

Metric	Goal	Actual
Average Ecio	-14db or better	-7.21
Average Forward FER	2% or less	1.49
Average Reverse FER	2% or less	2.10
% Access Failure	0%	10.71%
% Successful Call Origination	>=90% for Mobile Originating or Mobile Terminating Calls	82.14%
% Dropped Calls (of calls that originated successfully)	2% or less	7.14%

Figure 13

	# TCP Retransmissions	# TCP Aborts	# TCP Transmission Timeouts	# TCP Packets Lost
Total [27565 Samples]	2218	98	240	2040
8473724068 [124]	9	11	1	8
7149264650 [256]	27	8	7	23
8474775346 [13]	0	7	0	0
6306602110 [70]	3	6	7	2
7208404403 [536]	83	6	6	81
2039813997 [269]	99	5	3	96

Figure 14

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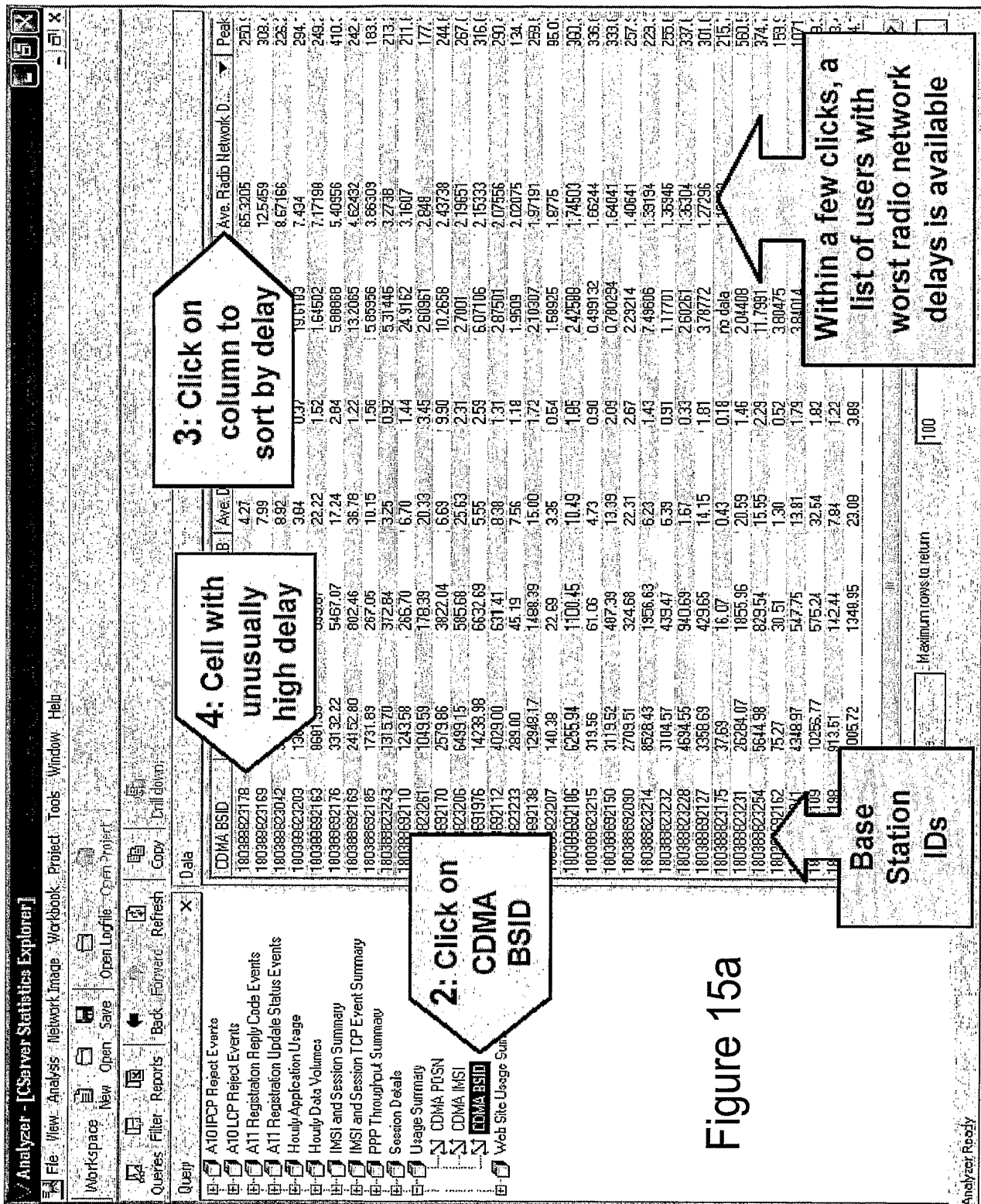


Figure 15a

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CDMA BSID	Total Downlink KB	Total Uplink KB	Ave. Downlin...	Ave. Uplink...	Ave. Core Net...	Ave. Radio Network D...	Peak
180388823178	1049.59	1049.59	10.15	1.56	5.85956	3.86309	1831
180388823178	1243.58	1243.58	3.25	0.92	5.31446	3.2738	2131
180388823178	1049.59	1049.59	6.70	1.44	24.9162	3.1607	2111
180388823178	1049.59	1049.59	20.33	3.45	2.60961	2.848	177

5: Drill-down from cell to individual users

Drill down to ▶

Show me CDMA BSIDs where CDMA BSID=180388823178 from

Show me CDMA IMSIs where CDMA BSID=180388823178 from

Show me CDMA PDSEs where CDMA BSID=180388823178 from

Show me CDMA Packet Session IDs where CDMA BSID=180388823178 from

Show me Event Times where CDMA BSID=180388823178 from

Usage Summary

Figure 15b

CDMA IMSI	Total Downlink KB	Total Uplink KB	Ave. Downlink	Ave. Radio Network Delay (s)
741047274104262	1874.43	588.09	4.27	65.3205
14477276447715	no data	no data	0.00	no data

One user is the cause of the high radio delay for the whole cell

Figure 15c

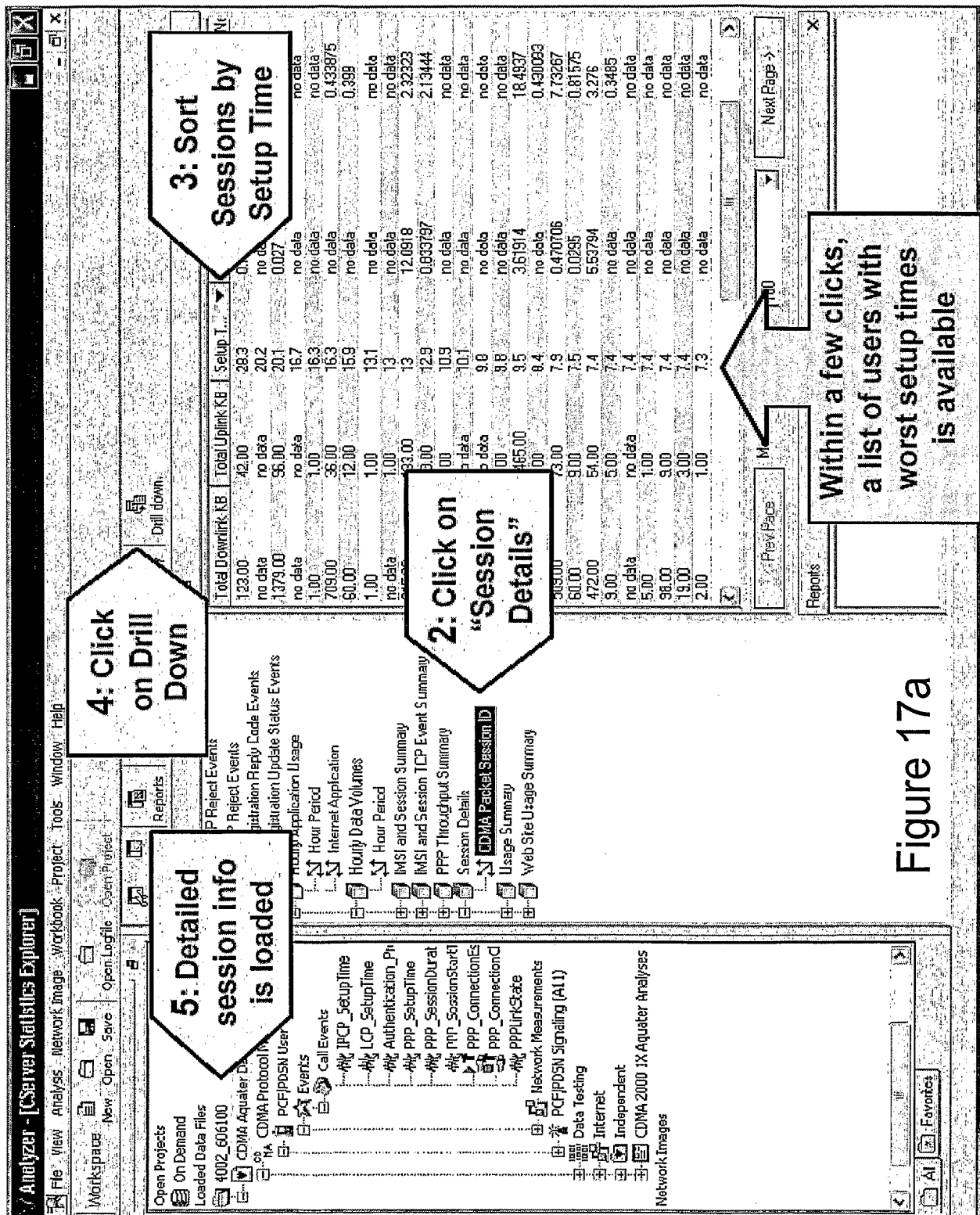
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CDM...	CDMA IMSI	CDMA BSID	Application	Ave. Core Network Delay (s)	Ave. Radio Network D...	Occurenc
3192	172747274104262	180388823178	www-http	44.2309	138.074	2685
3889	172747274104262	180388823178	www-http	1.84581	36.431	4711
2266	172747274104262	180388823178	www-http	0.042	31.4985	2044
2526	172747274104262	180388823206	www-http	1.81822	2.61666	4668
2296	172747274104262	180388823178	www-http	1.36825	2.30018	3945
2760	172747274104262	180388823206	www-http	2.17648	1.86458	3224
2291	172747274104262	180388823178	pop3	no data	no data	119

Figure 15d

	MIP Registration Reply Code	IMSI	User ID
Total (42 Samples)	Error code from the Foreign Agent - unknown challenge	5302093549	sbostrain01@sp
9/11/2002 3:01:17 PM (2)	Error code from the Foreign Agent - home agent port unreachable (ICMP error received)	8474452581	snelson88@spr
9/11/2002 2:58:55 PM (2)	Error code from the Foreign Agent - mobile node failed authentication	8474521587	mark2cool@spr
9/11/2002 2:59:38 PM (4)	Error code from the Foreign Agent - unknown challenge	8475309339	riacobs68@spr
9/11/2002 3:00:43 PM (2)	Error code from the Foreign Agent - mobile node failed authentication	3128990163	5D42889D@hc
9/11/2002 3:00:42 PM (2)	Error code from the Foreign Agent - unknown challenge	3128990163	5D42889D@hc
9/11/2002 2:59:59 PM (2)	Error code from the Foreign Agent - stale challenge	3128993627	rdelken01@spr

Figure 16



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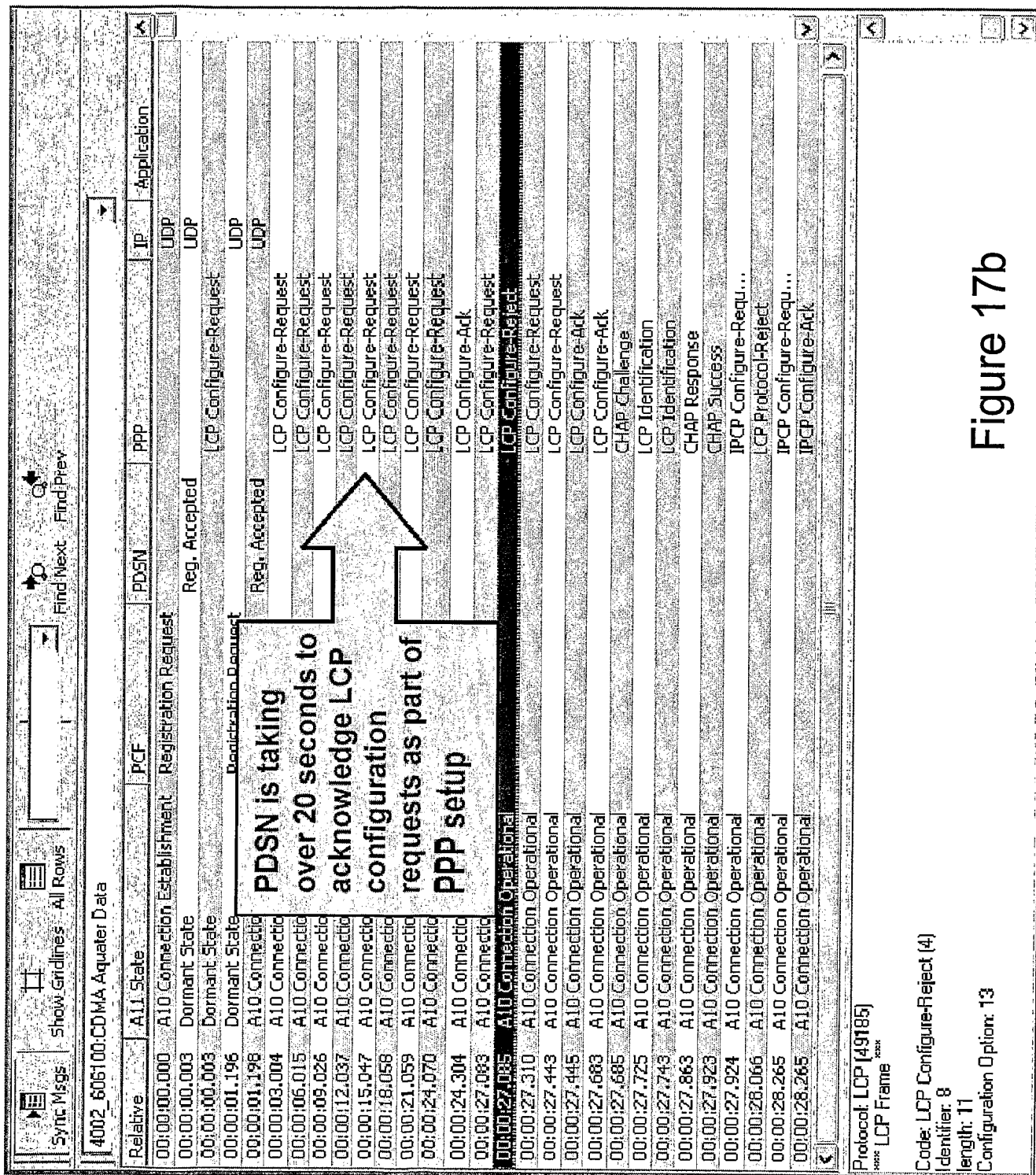


Figure 17b

